

CLAIMS

1. (currently amended) Testing method for designing a semiautogenous or an autogenous grinding circuit with at least one ball mill for grinding ore, ~~characterized in that the method comprising testing the ore is tested~~ in two separate testing steps using the ~~same testing~~ a single sample of ore.
2. (currently amended) Testing method according to ~~the claim 1,~~ ~~characterized in that~~ wherein the first testing step is a semiautogenous testing step for calculating the required grinding energy.
3. (currently amended) Testing method according to claim 1 ~~the claim 1 or 2,~~ ~~characterized in that~~ wherein the second testing step is a Bond ball mill test to determine the ball mill energy for ~~the~~ a predetermined particle size.
4. (currently amended) Testing method according to claim 2 ~~any of the proceeding claims,~~ ~~characterized in that~~ wherein the semiautogenous testing step is carried out in ~~the~~ a ball mill having ~~the~~ a diameter to length ratio between 1:0.33 ~~to~~ and 1:2.
5. (currently amended) Testing method according to claim 1 ~~wherein any of the proceeding claims,~~ ~~characterized in that~~ the sample of ore to be tested is between 2 ~~to~~ and 10 kg ~~by~~ in weight ~~of the ore to be tested.~~
6. (currently amended) Testing method of the claim 5, ~~characterized in that~~ wherein the sample of ore to be tested is between 6 ~~to~~ and 9 kg ~~by~~ in weight ~~of the ore to be tested.~~
- 7. (new) A testing method for designing a semiautogenous or an autogenous grinding circuit having at least one ball mill for grinding ore, the method comprising:

measuring an amount of time for grinding a predetermined mass of ore to a first predetermined size, in a first, semiautogenous step;

calculating a required grinding energy based on the measured time for grinding in the first step, mass of ore, mill characteristics and a measured specific gravity;

grinding in a ball mill, in a second step, the ore from the first step to a second predetermined size; and

calculating, using the Bond Mill Work Index, a required ball mill energy for the second step required to obtain a desired final grind size.---